

Question: Should sleeve gastrectomy vs. gastric plication be used for weight loss?

Certainty assessment							N _o of patients		Effect		Certainty	Importance
N _o of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	sleeve gastrectomy	gastric plication	Relative (95% CI)	Absolute (95% CI)		
EWL (follow up: range 4 months to 3 years)												
8	observational studies	very serious ^a	very serious ^b	serious	very serious	none	233	189	-	MD 31 % higher (10 higher to 72 higher)	⊕○○○ VERY LOW	CRITICAL
EWL for gastric plication (follow up: mean 5 years)												
1	observational studies	serious	not serious	very serious	not serious	none	% EWL at 5y 52.6%, SD 4.9, 95% CI 51.9 to 53.3; n=244, follow up completed by 86.9%				⊕○○○ VERY LOW	CRITICAL
EWL for gastric plication (follow up: mean 10 years)												
1	observational studies	very serious	not serious	very serious	not serious	none	% EWL at 10y 42%; n=800; follow up completed by 4.4%				⊕○○○ VERY LOW	CRITICAL
Postoperative complications												
9	observational studies	serious	serious	not serious	serious	none	80/335 (23.9%)	39/350 (11.1%)	OR 2.86 (1.47 to 5.88)	153 more per 1.000 (from 44 more to 313 more)	⊕○○○ VERY LOW	CRITICAL

Readmission (follow up: 30 days)

2	observational studies	serious ^c	not serious	serious ^d	very serious	none	3/101 (3.0%)	3/100 (3.0%)	OR 0.99 (0.19 to 5.05)	0 fewer per 1.000 (from 24 fewer to 105 more)	⊕○○○ VERY LOW	IMPORTANT
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Readmission (follow up: range 30 days to 1 years)

2	observational studies	serious ^c	not serious	serious ^d	very serious	none	1/101 (1.0%)	1/100 (1.0%)	OR 0.99 (0.06 to 16.07)	0 fewer per 1.000 (from 9 fewer to 130 more)	⊕○○○ VERY LOW	IMPORTANT
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Reoperation

2	observational studies	serious ^c	not serious	serious ^d	very serious	none	2/101 (2.0%)	1/100 (1.0%)	OR 0.66 (0.08 to 4.74)	3 fewer per 1.000 (from 9 fewer to 36 more)	⊕○○○ VERY LOW	IMPORTANT
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Reoperation (follow up: range 30 days to 1 years)

2	observational studies	serious ^c	not serious	serious ^d	very serious	none	1/101 (1.0%)	0/100 (0.0%)	OR 0.32 (0.01 to 8.09)	0 fewer per 1.000 (from 0 fewer to 0 fewer)	⊕○○○ VERY LOW	IMPORTANT
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Mortality

1	observational studies	serious ^e	not serious	not serious	not serious	none	0/40 (0.0%)	0/40 (0.0%)	RD 0.00 (-0.05 to 0.05)	-- per 1.000 (from to --)	⊕○○○ VERY LOW	CRITICAL
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Hypertension remission (follow up: range 4 months to 3 years)

8	observational studies	very serious	very serious ^f	serious ^a	very serious	none	11/233 (4.7%)	8/189 (4.2%)	RD 0.14 (-0.57 to 0.29)	-- per 1.000 (from to --)	⊕○○○ VERY LOW	IMPORTANT
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Hypertension improvement (follow up: range 4 months to 3 years)

8	observational studies	very serious ^a	very serious ^f	serious ^a	very serious	none	10/233 (4.3%)	7/189 (3.7%)	RD 0.08 (-0.47 to 0.64)	-- per 1.000 (from to --)	 VERY LOW	IMPORTANT
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OSAS remission (follow up: range 4 months to 3 years)

8	observational studies	very serious ^a	not serious	serious ^a	very serious	none	5/233 (2.1%)	2/189 (1.1%)	RD 0.45 (-1.00 to 0.10)	-- per 1.000 (from to --)	 VERY LOW	IMPORTANT
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OSAS improvement (follow up: range 4 months to 3 years)

8	observational studies	very serious ^a	not serious	serious ^a	very serious	none	1/233 (0.4%)	3/189 (1.6%)	RD 0.45 (0.10 to 1.00)	-- per 1.000 (from to --)	 VERY LOW	IMPORTANT
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T2DM remission (follow up: range 3 months to 18 months)

1	observational studies	very serious ^g	not serious	serious ^g	not serious	none	0/84 (0.0%)	0/43 (0.0%)	OR 0.41 (0.16 to 1.04)	0 fewer per 1.000 (from 0 fewer to 0 fewer)	 VERY LOW	IMPORTANT
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CI: Confidence interval; MD: Mean difference; OR: Odds ratio